

## SESAR JU research projects Very large-scale demonstrations

### WHAT

To establish state-of-the-art of existing geofencing solutions regarding the 3 U-space level:

- Pre-tactical geofencing → Update before the flight
- Tactical geofencing → Update during the flight on the ground
- Dynamic geofencing → Update during the flight on the drone

### HOW

One-year long flight-test campaign:

- 290 tests (rural and urban environments)
- 16 drones
- 18 mission planners
- 7 objectives to test

### WHY

To be able to deploy U-space. U1 and U2 should be validated and a part of U3 too. Project will provide recommendations for standardization



## 1<sup>st</sup> RESULTS

- Restricted area are not in line with current regulations.
- Not success to infringe horizontal NFZ with multirotors.
- Fixed wings infringe the NFZ and then realized an half turn.
- Conflict observed when a cage is created near a restricted area.



# SAVE THE DATE

# 24<sup>th</sup> sept. 2019

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Final demonstration will show several drones from different types flying near restricted area in a UTM context.

Scenario will be a search and rescue with the participation of firefighters.

This final demonstration will have several purposes; highlight the results obtained during the test period, show the technology readiness level of existing geofencing solution and show the link between active geofencing services and UTM services

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